

WHAT IS CLAIMED IS

1. A surgical tool for forming a cavity in the corpus of a penis, said tool defining an axis of elongation, and comprising:

5 an elongated body defining a distal end, a cutting portion more proximal than said distal end, a main portion more proximal than said cutting portion, and a handle portion more proximal than said main portion;

10 said main portion of said body of said tool being circular, and defining a first radius about said axis of elongation;

15 said cutting portion including at least one cutting surface extending by about said first radius from said axis of elongation, and at least one other surface extending by said first radius from said axis of elongation; and

20 said distal end of said body of said tool including a generally circular cross-section, and being tapered from the radius of said cutting portion at the juncture of said cutting portion with said distal ~~portion~~^{end} to a lesser radius at more distal locations.

2. A tool according to claim 1, wherein said cutting surface of said cutting portion does not protrude beyond said first radius.

5 3. A tool according to claim 1, wherein said cutting portion has a constant radius of said cutting surface and of said other surface from said axis of elongation, whereby said cutting surface and said other surface lie on the surface of a cylinder.

4. A tool according to claim 3, wherein said

tool has a dimension of said main portion which lies between 12 French and 40 French.

5. A tool according to claim 3, wherein said tool is made from a biologically inert material.

6. A tool according to claim 5, wherein said tool is made from surgical-quality stainless steel.

7. A tool according to claim 5, wherein at least a portion of said cutting portion is made from metal, and the remainder of said body is made from a plastic material.

8. A tool according to claim 3, wherein said handle portion includes at least one generally circular region having said first radius about said axis of elongation.

9. A tool according to claim 8, wherein said handle portion includes a flat region.

10. A tool according to claim 9, wherein said flat region lies parallel with said axis of elongation.

11. A tool according to claim ⁹~~8~~, wherein a plane including said axis of elongation and passing orthogonally through said flat region includes an edge of at least one of said cutting surfaces.

12. A surgical tool according to claim 1, wherein:

said cutting portion is tapered, and said at least one cutting surface extends by about said first radius from

5 said axis of elongation at the juncture of said cutting
portion with said main portion, and by a second radius, less
than said first radius, from said axis of elongation at the
10 juncture of said cutting portion with said distal end, and
wherein ~~said~~ at least one other tapered surface extends by
said first radius from said axis of elongation at said
10 juncture of said cutting portion with said main portion, and
by said second radius from said axis of elongation at said
10 juncture of said cutting portion with said distal ^{end} ~~portion~~;
and

15 said distal end of said body of said tool has a
generally circular cross-section, and is tapered from said
second radius at locations near said cutting portion to a
lesser radius at more distal locations.

13. A tool according to claim 12, wherein said
tool has a dimension of said main portion lying between 12
French and 40 French.

14. A tool according to claim 12, wherein said
tool is made from a biologically inert material.

15. A tool according to claim 14, wherein said
tool is made from surgical-quality stainless steel.

16. A tool according to claim 14, wherein at
least a portion of said cutting portion is made from metal,
and the remainder of said body is made from a plastic
material.

17. A tool according to claim 14, wherein said
handle portion includes at least one generally circular
region having ²~~said~~ first diameter about said axis of

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elongation.

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18. A tool according to claim 12, wherein a plane including said axis of elongation and passing orthogonally through said flat region includes an edge of at least one of said cutting surfaces.

19. A method for inserting a chamber into the corpus of a penis, said method comprising the steps of:
obtaining access to the interior of a corpus of the penis of a patient;

5 obtaining a tool defining an axis of elongation, and comprising:

an elongated body defining a distal end, a cutting portion more proximal than said distal end, a main portion more proximal than said cutting portion, and a handle portion more proximal than said main portion;

10 said main portion of said body of said tool being circular, and defining a first radius about said axis of elongation;

15 said cutting portion including at least one cutting surface extending by about said first radius from said axis of elongation at the juncture of said cutting portion with said main portion, said cutting portion further including at least one other surface extending by said first radius from said axis of elongation; and

20 said distal end of said body of said tool including a generally circular cross-section, and being tapered from the radius of said cutting portion at the juncture of said cutting portion with said distal ~~portion~~ ^{end} to a lesser radius at

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more distal locations;

while holding said handle portion of said tool,
inserting said distal end of said tool into said corpus to
30 the desired depth, approximately parallel with the axis of
elongation of said penis;

if a fibrous region is encountered during said
inserting step, adjusting the depth of penetration of said
tool into said corpus so that said cutting portion of said
35 tool is adjacent to said fibrous region, and rotating said
tool to thereby tend to remove a portion of said fibrous
region;

removing said tool from said corpus, whereby a
cavity is left therein; and

40 inserting into said cavity at least a portion of
said chamber.

20. A method according to claim 19, wherein said
step of obtaining a tool includes the step of obtaining a
tool having said first radius approximately equal to a
corresponding radius of said chamber.

21. A method according to claim 19, wherein said
step of obtaining a tool includes the step of obtaining a
plurality of tools, each having a different value of said
first radius, and performing said steps of

5 (a) inserting said distal end of said tool
into said corpus, (b) if a fibrous region is are
encountered during said inserting step, adjusting
the depth of penetration of said tool into said
corpus so that said cutting portion of said tool
10 is adjacent to said fibrous region, and rotating
said tool to thereby tend to remove a portion of
said fibrous region, and (c) removing said tool

from said corpus
are performed for each of said plurality of tools, beginning
15 with that one of said tools having the smallest value of
said first radius, and proceeding in turn with said tools
having the next larger first radius.

22. A method according to claim 19, wherein said
step of obtaining a tool includes the step of obtaining a
tool in which said cutting surface lies in the surface of a
cylinder having a diameter equal to said first radius and
5 coaxial with said axis of elongation.

23. A method according to claim 19, wherein said
step of obtaining a tool includes the step of obtaining a
tool in which said cutting surface lies in the surface of a
cone having a larger diameter which is equal to said first
5 radius, and an axis which is coaxial with said axis of
elongation.

24. A kit of tools for aiding insertion of an
apparatus into the corpus of a penis, said kit of tools
comprising:

a plurality of tools, each said tool defining an
5 axis of elongation, and comprising:

an elongated body defining a distal end,
a cutting portion more proximal than said distal
end, a main portion more proximal than said
cutting portion, and a handle portion more
10 proximal than said main portion;

said main portion of said body of said
tool being circular, and defining a first radius
about said axis of elongation;

said cutting portion having at least one

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15 cutting surface extending by about said first
radius from said axis of elongation at the
junction of said cutting portion with said main
portion, and at least one other surface which, at
any cross-section perpendicular to said axis of
20 elongation, has a radius substantially equal to
the radius of said cutting surface at said cross-
section; and
said distal end of said body of said
tool having a generally circular cross-section,
25 and being tapered from the radius of said cutting
surface at locations near said cutting portion to
a lesser radius at more distal locations;
each of said tools of said plurality of tools in one of said
kits having a value of said first radius which differs from
30 the value of said first radius of others of said tools in
said kit.

25. A kit of tools according to claim 24, wherein
said first radii of said tools include values in the range
of about 3 to 7 millimeters.

26. A kit of tools according to claim 24, which
includes tools having first radii of approximately 3, 4, 5,
and 6 millimeters.

27. A kit of tools according to claim 24, wherein
said cutting portion is tapered, and said cutting surface
extends by a second radius, less than said first radius, at
the juncture of said cutting portion with said distal
5 ~~portion.~~ *end*

/28. A kit of surgical tools for forming a cavity

in the corpus of a penis, each of said tools of said kit defining an axis of elongation, and each comprising:

an elongated body defining a distal end,
5 a cutting portion more proximal than said distal end, a main portion more proximal than said cutting portion, and a handle portion more proximal than said main portion;

said main portion of said body of said
10 tool being circular, and defining a first radius about said axis of elongation;

said cutting portion including at least one cutting surface extending by about said first radius from said axis of elongation, and at least
15 one other surface extending by said first radius from said axis of elongation; and

said distal end of said body of said tool including a generally circular cross-section, and being tapered from the radius of said cutting portion at the juncture of said cutting portion
20 with said distal ~~portion~~ ^{end} to a lesser radius at more distal locations; wherein

at least one of said tools of said kit of tools has said cutting portion on a constant radius from said axis
25 of elongation and said other surface at said constant radius from said axis of elongation, whereby said cutting surface and said other surface lie on the surface of a cylinder; and wherein

an other one of said tools of said kit of tools
30 has a tapered cutting portion, and said at least one cutting surface extends by about said first radius from said axis of elongation at the juncture of said cutting portion with said main portion, and by a second radius, less than said first radius, from said axis of elongation at the juncture of said

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35 cutting portion with said distal end, and wherein said at
least one other tapered surface extends by said first radius
from said axis of elongation at said juncture of said
cutting portion with said main portion, and by said second
radius from said axis of elongation at said juncture of said
40 cutting portion with said distal portion.

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